

### Abstract of the Disclosure

A shape memory foam material is obtained by impregnating a base foam material in a thermoplastic substance, heating and compressing the same at a temperature the same as or higher than the softening temperature of a thermoplastic substance as well as less than the softening temperature of the base foam material, cooling down while retaining the compressed state, and releasing the pressure after the cooling operation. The compressed state of the shape memory foam material is retained in a room temperature by a hardened product of a thermoplastic substance existing at least in the surface layer part thereof. The compressed state is released by softening the hardened product by heating. Moreover, a soundproof cover for an automobile engine is obtained using this shape memory foam.